Approved For Release 2002/08/28: CIA-RDP63-00313A000600120018-4

**NRO REVIEW COMPLETED** 

COR 0334

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6 February 1959

HEROTALDUM FOR THE RECORD

SUBJECT: Trip Report - Program Review Conference
WS 117-L and COROMA

- 1. A brinding concerning the above-mentioned programs was held at Pale Alto on 23 Jensery 1959. In addition, the 22nd of Jensery was spent coordinating and discussing COROMA problems with It. Col. Mathemon, Chief of the Pale Alto Control Center.
- 2. The highlights of the items presented at the briefing are as follows:
  - a. Schedule of CORCEA shots: Because of a rather serious malfunction while attempting to launch the first test vehicle on 21 January, the ability to meet the present Launch schedule was seriously doubted. The exact nature, causes and results of this malfunction were not known at this time. However, following is a brief impression of what happened. The countdown had reached launch minus 60 minutes when the mulfunction occurred. At this time the hydraulic system in the Bell Hustler was being tested. When electrical power was applied to this system, several events took place that were supposed to occur in the air, but not during ground test. The Ullage rockets fired, and the explosive bolts that separate the Hustler from the Thor also fired. Portungtely, the instler sits in a farring that is attached to the Thor so the Hustler did not fall to the ground. However, the firing of the Ullege rocket did cause some damage. At this time the countdoes was stopped. A proposed revision to the present schedule was discussed. The proposed schedule would result in the first COROMA lemmelding occurring in May 1959. The proposed schedule was not firmed up.

	b. None	Cone Recovery	Test: Project	has been
	**-*		to the to the	st nose come re-entry
the	Lecoagli	area for an air	pick-up. In	place of

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a balloom drop of the mose come is proposed at Hollison AFD, How Macdeo. The test will consist of dropping the nose come from 100,000 feet with an air smatch recovery planned. As discussed below, aircraft dropped recovery tests are being performed in the Hesselian area.

c. Recovery Vabialo Program: Several items of interest were brought out in the briefing on the recovery system. The first was that the mode 3 parachate has been selected as the chute to be used in the recovery system. The mode 3 chute has a dismeter of \$0.5 feet and a descent rate of 25 feet per second. These chutes are in production and have been tested. This fact was not discussed at the briefing, but it was learned later from Col. Mathemore that three drops had been made in the Hessilan area from a \$3-47 aircraft, using the mode3 chute. Two of the drops were recovered by air smatch. The third was a mater recovery. Because of a beason malfunction on the mass come, the stronger was not able to locate the third unit. However, carriers whip rater did point the some and a water recovery was made. Additional \$3-47 (hope are placed in the Hessilan area.

Another item of interest in commontion with the recovery system is that GS feels they have solved the presents ejection problem by redesign of the system. Another item discussed was the problem of stability of the nose cone during re-entry because it was originally designed for a film load of 40 pounds and this has been reduced to a half load, or 20 pounds. GE indicated that approximately 3 pounds will be required for ballant. Since the ballant will here to be located near the nose, the addition of more film will not askee the problem. It is planned to use an instrument package for ballant.

- d. From Communica Intimates: The briefing on power supply we. power communication indicates that there is adequate power for 24 hours, but not enough for a two day time in orbit. This is princilly true because 70% of the required power last is estimated to be last. Also considerable power is required on passive orbits (camera not operating) to keep the satellite stabilized. The watth hours satilable and required are shown in attackment fil.
- e. Compound Parts Schedules; Nuch time was spent in conmideration of the present delivery schedules of the compount parts. Without going into detail, it appears that the schedules are very

tight and some clippage could occur. The program is so integrated that a slippage in any place would probably cause a slip in the proposed launch schedule. The details of those schedules are contained in the photostatic copy of the briefing side which is an attachment to this report.

f. Comma Andrewst and Film Rendling Procedures after is propering a separate report that will cover these two subjects.

- 3. The items discussed outside the brising are as follows:
- at the Pale Alio Control Center experienced any difficulty with the Command Post Response conducted between Project Headquarters and Heller during the week 19 through 25 January. Homespee ware persed both by phone and courier between Heller and Pale Alto. In connection with this, Headquarters plans to conduct a CPX approximately every three weeks.
- b. Communications at Pale Alto Control Content: The decision was made by not to establish a communications sentor at Pale Alto in view of the security problems involved.
- The recision to the Progress Deports Control Manual was assessed with Pair Alto and Col. The profit of HD.
  The recision to the Progress Deports was made to give Described addition to the Deports Control Manual was also discussed. A proposed addition to the Deports Control Manual was also discussed. The addition will provide Describe Describe with the opheseria data approximately two weeks prior to each Lemman. This addition will be published in early Priorway. Since Describe describe describe information on leanther other than CONCEA, Pale Alice agreed to seek the short Party of 13 on Test and for Rio-ced Leanther. The above reports will provide Describe with estimated time of Leanth, actual time of Leanth or short, and progress of the satellite case it is in orbit.

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d. Compliant Planning Partors: Several planning factors were discussed that are of operational interest. One of those is the film supply annihila which will be covered in report. 25X1 another is that if the launch is stopped after factor are started,

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a 48 hour delay is required before another attempt at laurah. This presents a serious limitation since the countdown for the present vehicle calls for some fueling at launch minus 5 hours. Undoubtedly this will be reduced in later launches. Also, the present schedule for launch asimuth calls for COROTA units to be launched on a true eximith of 1840.

> C. L. MEPEY Hajor USAF

Att: Chart

CLIAmphy : bm 1 - Dir Ope, DPD w/att

2 - Dep Dir, DPD

3 - Adedia, DPD 4 - Cover, DPD

5 - SO, DPD 6 - COR chron